

ABSTRACT OF THE DISCLOSURE

A method and device for the carrier recovery in OFDM systems. The method comprises the steps of: performing, in transmission, a discrete inverse Fourier transform providing for a number of pilot subcarriers to be transmitted together with subcarriers associated with the symbols of a certain constellation, each symbol being associated with a block comprising a number m of bits; and performing, in reception, a Fourier discrete transform of the received signal. Wherein the method further comprises the steps of arranging the pilot subcarriers in a continuous/flanked manner inside the signal to be transmitted; extracting the flanked pilot subcarriers by band-pass filtering the received signal thus obtaining a first filtered signal, and utilizing such extracted pilot subcarrier to perform a feed forward correction of the phase error to be carried out before performing said Fourier discrete transform.